



## SPOT CHECK EVALUATION

**FCC ID** : 2AWRO-8768  
**Equipment** : Wireless Tablet  
**Model Name** : P4N6AC  
**Applicant** : Abyssal Plain LLC  
CASTLE HILLS  
1100 NW LOOP 410, SUITE 700,  
SAN ANTONIO, TEXAS, 78213  
**Standard** : FCC Part 15 Subpart C §15.247  
FCC Part 15 Subpart E §15.407

The product was received on Oct. 22, 2021 and testing was performed from Oct. 27, 2021 to Dec. 22, 2021. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

***Sporton International Inc. Wensan Laboratory***

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## History of this test report

Version	Description	Issued Date
01	Initial issue of report	Jan. 07, 2022
02	Add List of Measuring Equipment	Jan. 20, 2022



## **1. Introduction Section**

Abyssal Plain LLC will take full responsibility for reuse the test data.

Abyssal Plain LLC, hereby declares that the WLAN and Bluetooth hardware of 2AWRO-8768 are HW identical to 2AWRO-8762 (lead). In addition, 2AWRO-8768 digital circuit is identical to 2AWRO-8762 (lead). Therefore the following report of 2AWRO-8762 (lead) may be used as reference test data for 2AWRO-8768, along with the spot check verification data following the FCC KDB 484596 D01 v01.

- WLAN
- Bluetooth



## 2. Model Difference Information

Difference between 2AWRO-8762 (lead) and 2AWRO-8768:

2AWRO-8768 is referred 2AWRO-8762 (lead) to minor circuitry change to non-transmitter portions to add GPS receiver, modify front, and rear cameras, and add an e-compass.

2AWRO-8768 device dimension is slightly extended for rear and front cameras upgrade.

WiFi/BT IC, RF circuit, and antenna pattern are the same as 2AWRO-8762 (lead), only slightly shift location for extended ID. RF conducted power, and antenna gain are almost the same as 2AWRO-8762 (lead)

Abyssal Plain LLC, hereby declares that 2AWRO-8762 (lead) and 2AWRO-8768 are electrical identical.

Therefore the WLAN/Bluetooth report/data of 2AWRO-8762 (lead) may represent for 2AWRO-8768.



### 3. Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Summary for power and RSE spot check for each rule entry and technology is listed as below:

Test Item	Mode	2AWRO-8762 (lead) Worst Result	2AWRO-8768 Worst Result	Difference (dB)
<b>Average Conducted Power (dBm)</b>	BT	7.67	7.4	0.27
	BLE	7.7	7	0.7
	WLAN 2.4G	15.2	15.1	0.1
	WLAN 5G	13.8	13.7	0.1
<b>Average Radiated Spurious Emission (Band Edge) (dBuV/m)</b>	BT	20.41	22.15	-1.74
	BLE	46.56	46.37	0.19
	WLAN 2.4G	52.97	51.3	1.67
	WLAN 5G	53.45	50.96	2.49
<b>Peak Radiated Spurious Emission (Harmonic) (dBuV/m)</b>	BT	44.05	45.44	-1.39
	BLE	44.09	44.65	-0.56
	WLAN 2.4G	54.4	55.08	-0.68
	WLAN 5G	52.59	56.13	-3.54

**Conclusion:**

Radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level and RSE spot check are shown within expected level compliant to limit line.

We are using power measurements from the original parent model reports to list on the grant.

UNII DFS detection mechanism/software of variant model is the same as original model, thus the original DFS report is being reused and no spot check is done on the variant model.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and take full responsibility that the test data as referenced from the parent model report represents compliance for the new FCC ID.

SAR testing has been fully tested on the variant model.



## 4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)
15C	DSS	Bluetooth	2400~2483.5	2AWRO-8762	Original Grant	FR072932-01A	2AWRO-8768
	DTS	BLE Wi-Fi	2400~2483.5	2AWRO-8762	Original Grant	FR072932-01B FR072932-01C	2AWRO-8768
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725 5725~5850	2AWRO-8762	Original Grant	FR072932-01E FR072932-01F	2AWRO-8768
		DFS	5250~5350 5470~5725	2AWRO-8762	Original Grant	FZ072932-01	2AWRO-8768





## 5. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 01, 2021	Oct. 27, 2021	Feb. 28, 2022	Conducted (TH05-HY)
Power Meter	DARE	RPR3006W	16I00054SNO 12	10MHz~6GHz	Dec. 16, 2020	Oct. 27, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Nov. 13, 2020	Oct. 27, 2021	Nov. 12, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Oct. 27, 2021	Mar. 16, 2022	Conducted (TH05-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jul. 13, 2021	Nov. 09, 2021~ Dec. 22, 2021	Jul. 12, 2022	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 18, 2021	Nov. 09, 2021~ Dec. 22, 2021	May 17, 2022	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 26, 2021	Nov. 09, 2021~ Dec. 22, 2021	Oct. 25, 2022	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz ~ 40GHz	Jun. 22, 2021	Nov. 09, 2021~ Dec. 22, 2021	Jun. 21, 2022	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 18, 2021	Nov. 09, 2021~ Dec. 22, 2021	Mar. 17, 2022	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 09, 2021~ Dec. 22, 2021	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 09, 2021~ Dec. 22, 2021	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-000992	N/A	N/A	Nov. 09, 2021~ Dec. 22, 2021	N/A	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 10, 2021	Nov. 09, 2021~ Dec. 22, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 10, 2021	Nov. 09, 2021~ Dec. 22, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 22, 2021	Nov. 09, 2021~ Dec. 22, 2021	Feb. 21, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz~40GHz	Mar. 11, 2021	Nov. 09, 2021~ Dec. 22, 2021	Mar. 10, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M-18G	Feb. 10, 2021	Nov. 09, 2021~ Dec. 22, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Nov. 09, 2021~ Dec. 22, 2021	Mar. 10, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN5	6.75GHz High Pass Filter	Mar. 11, 2021	Nov. 09, 2021~ Dec. 22, 2021	Mar. 10, 2022	Radiation (03CH13-HY)

END of this report